Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A metal-based carbon fiber composite material obtained by sintering of metal and carbon fiber, the composite material comprising 10 to 80% by weight of the carbon fiber based on a total weight of the composite material and the composite material being sintered at 70% or more of ideal density and the carbon fiber is continuously aligned from one end to the other end of the composite material.

2. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 1, wherein the carbon fiber is selected from the group consisting of pitch-based carbon fiber, PAN-based carbon fiber, vapor-phase grown carbon fiber, carbon nanotube and nanotube/nanofiber twisted wire.

3. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 1, wherein the metal is selected from the group consisting of copper, aluminum, magnesium and their alloys.

4. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 3, wherein the metal is aluminum or its alloy, and the composite material has a density of 2.6g/cm^3 or less.

5. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 3, wherein the metal is copper or its alloy and the composite material has a density of 6.8g/cm^3 or less.

6. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 3, wherein the metal is magnesium or its alloy and the composite material has a density of 2.1g/cm^3 or less.

7. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 1, wherein the carbon fiber is aligned.

8. (Withdrawn) The metal-based carbon fiber composite material, as claimed in Claim 21, wherein a thermal conductivity is 300W/mK or more in the arrangement direction of the carbon fiber.

9. (Withdrawn) Electronic equipment with semiconductors, wherein the metal-based carbon fiber composite material as claimed in Claim 1 is used as a heat-dissipating member.

10. (Withdrawn) A power module, wherein the metal-based carbon fiber composite material as claimed in Claim 1 is used as a heat-dissipating member.

11. (Currently Amended) A method for producing a metal-based carbon fiber composite material, comprising the steps of:

~~step 1:~~ obtaining a metal fiber mixture by ~~physically mixing~~immersing carbon fiber ~~with metal powder~~into a suspension wherein metal powder is dispersed in a solvent, wherein the carbon fiber has a fiber length of 100 mm or more;

~~step 2:~~ filling the metal fiber mixture into a jig, while the metal fiber mixture is aligned, and

~~step 3:~~ setting the jig in the air, in a vacuum or in an inert gas atmosphere and directly supplying pulse electric current to the metal fiber mixture, with applying ~~the pressure~~a pressure to the metal fiber mixture through the jig, to effect sintering by the heat generated therefrom.

12. (Original) The method for producing a metal-based carbon fiber composite material as claimed in Claim 11, wherein the carbon fiber is selected from the group consisting of pitch-based carbon fiber, PAN-based carbon fiber, vapor-phase grown carbon fiber, carbon nanotube, and nanotube/nanofiber twisted wire.

13. (Original) The method for producing a metal-based carbon fiber composite material as claimed in Claim 11, wherein the metal is selected from the group consisting of copper, aluminum, magnesium and their alloys.

14-19. (Canceled)

20. (Currently Amended) The method for producing a metal-based carbon fiber composite material as set forth in Claim 11, ~~wherein, among the carbon fibers, those which are~~wherein the carbon fiber is continuous from one end of the composite material to the other ~~end have~~end, and has the fiber length of the same as the dimension of the composite material~~, and the step 1 is conducted by a physical mixing method in which the direction of fiber is maintained~~.

21. (Withdrawn) The metal-based carbon fiber composite material as set forth in Claim 1, comprising 45 to 80 % by weight of the carbon fiber, based on the total weight of the composite material.